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**Husson et al.**

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(54) **TRACTOR WITH HYBRID POWER SYSTEM**

(56) **References Cited**

(71) Applicant: **AGCO SA**, Beauvais (FR)

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(72) Inventors: **Geoffroy Husson**, Beauvais (FR);  
**Malcolm Shute**, St Germain la Poterie  
(FR); **Gabriel Menier**, Beauvais (FR)

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(73) Assignee: **AGCO SA**, Beauvais (FR)

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*Primary Examiner* — Frank Vanaman

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(57) **ABSTRACT**

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CPC ..... **B60K 17/28** (2013.01); **B60K 6/46**  
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A tractor includes an internal combustion engine for deliv-  
ering torque, wheels or tracks for imparting a propulsive  
force to the ground, and a power takeoff shaft for delivering  
torque to implements attached thereto. The power takeoff  
shaft is driven by a mechanical drive connection to the  
engine. An electrical motor/generator is drivingly connected  
to the engine, and at least one electrical motor is arranged to  
deliver a propulsion force to the wheels or tracks. The motor  
is electrically connected to, and powered by, the electrical  
motor/generator. A battery is connected to the electrical  
motor/generator and to the electrical motor so that electrical  
energy can be passed therebetween. The motor/generator  
can also operate as a motor so that the power takeoff shaft  
is at least partially powered by electrical energy from the  
battery.

**5 Claims, 11 Drawing Sheets**

